

3. (Amended) The cellular phone of claim 5, wherein the information pertains to a user of the cellular phone.

4. (Amended) The cellular phone of claim 5 further comprising one or more hierarchical traversable tree structures on the phone, the tree structures comprising individual nodes each of which being associated with a phone context, the processors being configured to automatically determine a context by traversing at least one node on one of the trees.

5. (Amended) A cellular phone comprising:
one or more processors configured to:
receive information that pertains to a current context of the cellular phone;
determine the current context based on the information;
modify at least one behavior of the cellular phone responsive to the current context; and
an application program interface that is configured to wirelessly receive information that is associated with the phone's context.

6. (Amended) A method of operating a cellular phone comprising:
wirelessly receiving, with the cellular phone, information that pertains to a context of the cellular phone, the cellular phone being configured to receive said information from different types of context providers that provide different forms of information;

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1 responsive to said receiving and using only the cellular phone and its
2 associated on-board componentry, modifying at least one behavior associated with
3 the cellular phone.

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5 7. The method of claim 6, wherein the behavior pertains to whether the
6 phone is on or off.

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8 8. The method of claim 6, wherein the behavior pertains to operation of
9 a cellular phone ringer.

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11 9. The method of claim 6, wherein the behavior pertains to whether the
12 cellular phone is in a vibration mode.

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14 10. The method of claim 6, wherein the behavior pertains to a ringer
15 pitch.

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17 11. The method of claim 6, wherein the behavior pertains to forwarding
18 calls.

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20 12. The method of claim 6, wherein said modifying comprises using one
21 or more cellular phone settings that are resident on the cellular phone to modify
22 the cellular phone's settings.

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1 13. The method of claim 6, wherein said receiving comprises receiving
2 cellular phone setting information that is to be used to modify the cellular phone's
3 behavior.

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5 14. A cellular phone programmed to implement the method of claim 6.

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7 15. (Amended) One or more readable media having readable
8 instructions thereon which, when executed by a cellular phone, cause the cellular
9 phone to:

10 wirelessly receive information from different context source information
11 types that provide different forms of information that pertains to a context of the
12 cellular phone; and

13 responsive to receiving the information, modify at least one behavior
14 associated with the cellular phone.

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16 16. A cellular phone embodying the computer-readable media of claim
17 15.

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19 17. (Amended) A cellular phone comprising:
20 multiple different types of location providers which collectively are
21 configured to receive different forms of location information that can be used by
22 the cellular phone to ascertain its location; and

23 one or more processors configured to:

24 receive information associated with a current location of the cellular
25 phone; and

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1 modify at least one behavior of the cellular phone responsive to the
2 information.

3
4 18. The cellular phone of claim 17, wherein the information comprises
5 cellular phone settings.
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7 19. The cellular phone of claim 17, wherein the one or more processors
8 are configured to modify the one behavior by turning the phone on or off.
9

10 20. The cellular phone of claim 17, wherein the one or more processors
11 are configured to modify the one behavior by adjusting a ringer pitch on the
12 phone.
13

14 21. The cellular phone of claim 17, wherein the one or more processors
15 are configured to modify the one behavior by turning a cellular phone ringer on or
16 off.
17

18 22. The cellular phone of claim 17, wherein the one or more processors
19 are configured to modify the one behavior by placing the phone in a vibration
20 mode.
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22 23. The cellular phone of claim 17, wherein the one or more processors
23 are configured to modify the one behavior by forwarding one or more calls to a
24 user-provided telephone number.
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1 24. (Amended) A cellular phone comprising:
2 receiving means configured to wirelessly receive multiple different forms
3 of information that pertains to a current location of a cellular phone; and
4 means to modify at least one behavior associated with the cellular phone
5 responsive to said information.

6
7 25. The cellular phone of claim 24, wherein said information pertains to
8 cellular phone settings that are associated with the current location.
9

10 26. The cellular phone of claim 24, wherein said information pertains to
11 a defined location type of which the location is an instance.
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13 27. The cellular phone of claim 24, wherein said means to modify
14 comprises means to change the cellular phone's behavior when it is no longer at
15 the current location.
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17 28. Cancelled.
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19 29. (Amended) A method of managing cellular phone behavior
20 comprising:
21 defining one or more cellular phone behaviors for a given location; and
22 wirelessly transmitting information to cellular phones within that location
23 that permits cellular phones to automatically modify their behavior while in that
24 location, wherein said transmitting information comprises transmitting information
25

1 that is associated with a location type that has attributes that define a cellular
2 phone behavior.

3
4 30. (Amended) The method of claim 29, wherein said transmitting
5 information comprises transmitting information pertaining to cellular phone
6 settings.

7
8 31. (Amended) A method of managing cellular phone behavior
9 comprising:

10 providing one or more transmitters that are configured to transmit
11 information that permits cellular phones to automatically modify their behavior, at
12 least a portion of the information pertaining to one or more class types individual
13 ones of which are associated with various attributes that define the behavior of
14 cellular phones;

15 placing the one or more transmitters in a location where a particular cellular
16 phone behavior is desired; and

17 transmitting information using said one or more transmitters.

18
19 32. The method of claim 31, wherein the behavior comprises whether
20 the cellular phone is on or off.

21
22 33. The method of claim 31, wherein the behavior pertains to the
23 cellular phone's ringer.

1 34. The method of claim 31, wherein the behavior pertains to the pitch
2 of the cellular phone's ringer.

3
4 35. The method of claim 31, wherein the behavior pertains to call
5 forwarding.

6
7 36. A method of managing cellular phone behavior comprising:
8 defining one or more class types each of which can be associated with a
9 location for which a particular cellular phone behavior is desired; and
10 associating attributes with the one or more class types, the attributes
11 defining cellular phone behavior.

12
13 37. The method of claim 36, wherein the behavior pertains to whether
14 the cellular phone is to be on or off.

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16 38. The method of claim 36, wherein the behavior pertains to whether
17 the cellular phone's ringer is to be on or off.

18
19 39. The method of claim 36, wherein the behavior pertains to the pitch
20 of the cellular phone's ringer.

21
22 40. The method of claim 36, wherein the behavior pertains to
23 automatically forwarding telephone calls.

24
25 41. A method of managing cellular phone behavior comprising:

1 defining one or more class types each of which can be associated with a
2 location for which a particular cellular phone behavior is desired;
3 associating attributes with the one or more class types, the attributes
4 defining cellular phone behavior; and
5 associating a class type with a location for which a particular cellular phone
6 behavior is desired.

7
8 42. A method of managing cellular phone behavior comprising:
9 associating a class type with a location for which a particular cellular phone
10 behavior is desired, the class type having attributes that define the cellular phone's
11 behavior; and
12 wirelessly transmitting information pertaining to the class type for
13 reception by cellular phones in the location, the information being configured to
14 be used by cellular phones to automatically adjust one or more behaviors.

15
16 43. The method of claim 42, wherein said associating comprises
17 providing a transmitter at the location that is configured to transmit the
18 information.

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20 44. The method of claim 42, wherein the behavior is defined by cellular
21 phone settings.

22
23 45. The method of claim 42, wherein the behavior pertains to whether
24 the cellular phone is on or off.
25

1 46. The method of claim 42, wherein the behavior pertains to whether
2 the cellular phone's ringer is on or off.

3
4 47. The method of claim 42, wherein the behavior pertains to call
5 forwarding.

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7 48. (Amended) A location-aware cell phone that can, using only location
8 information that it receives and its on-board componentry, determine its location
9 and automatically adjust one or more of its settings so that it behaves in a manner
10 that has been defined for that location.

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12 49. Cancelled.

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14 50. (Amended) A method of operating a cellular phone comprising:
15 providing a cellular phone; and
16 determining, with the cellular phone, a present cellular phone location
17 wherein said determining comprises:

18 receiving location information;

19 accessing one or more hierarchical tree structures having nodes that
20 correspond to locations; and

21 using the location information to traverse at least portions of the one
22 or more tree structures to ascertain the present location.

23
24 New Claims:
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51. A cellular phone comprising:
one or more computer-readable media;
one or more hierarchical traversable tree structures resident on the
computer-readable media, the tree structures comprising individual nodes each of
which being associated with a phone context; and
one or more processors configured to:
receive information that pertains to a current context of the cellular
phone;
automatically determine the current context based on the information
by traversing at least one node on one of the trees; and
modify at least one behavior of the cellular phone responsive to the
current context.

52. The cellular phone of claim 51 further comprising a context service
module that is configured to receive information from multiple different context
providers.

53. The cellular phone of claim 51, wherein the information pertains to a
user of the cellular phone.

54. A cellular phone comprising:
a context service module that is configured to receive different forms of
information from multiple different types of context providers; and
one or more processors associated with the context service module and
configured to:

1 receive information that pertains to a current context of the cellular
2 phone;

3 determine the current context based on the information; and

4 modify at least one behavior of the cellular phone responsive to the
5 current context.

6
7 55. The cellular phone of claim 54, wherein the information pertains to a
8 user of the cellular phone.

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10 56. The cellular phone of claim 54 further comprising one or more
11 hierarchical traversable tree structures on the phone, the tree structures comprising
12 individual nodes each of which being associated with a phone context, the
13 processors being configured to automatically determine a context by traversing at
14 least one node on one of the trees.

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16 57. The cellular phone of claim 54 further comprising an application
17 program interface that is configured to wirelessly receive information that is
18 associated with the phone's context.

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20 58. A cellular phone comprising:
21 location provider means for receiving different forms of location
22 information;
23 means for ascertaining a location from the location information; and
24 means for modifying at least one behavior associated with the cellular
25 phone responsive to ascertaining said location.